Table 4-1 (*Continued*)
PHYSICAL CONSTANTS OF INORGANIC COMPOUNDS

Name	Formula	Formula weight	Color, crystalline form, refractive index	Density	Melting point, °C	Boiling point, °C	Solubility in 100 parts
Europium							
(III) sulfate-8-water	$Eu_2(SO_4)_3 \cdot 8H_2O$	736.23	lt pink	....	$-8H_2O$, 375	d 1600	2.56^{20}
sulfide	EuS	184.02	blk, cub	5.75	ign	....	....
telluride	EuTe	279.6	cub	....	1527	....	....
Fluorine	F_2	38.00	yel-grn gas, 1.000187^{25}	1.554^{25} (g/L)	−219.70	−188.20	d
fluorosulfate	$F[SO_3F]$	118.06	col gas	1.78^{-34} (g/L)	−158.5	−31.3	....
nitrate	$F(NO_3)$	81.01	col gas	1.507^{bp}_{liq}	−175	−45.9	hyd; s acet
nitride, tri-	FN_3	60.92	grn-yel gas	....	−154	−82	....
perchlorate	$F[ClO_4]$	102.45	col gas, expl	4.85^{25} (g/L)	−167.3	-15.9^{735mm}	d
Fluoroamine, di-	HNF_2	53.01	unstable gas	....	−116	−23.6	....
Fluoroboric acid	$H[BF_4]$	87.81	col liq	....	d 130	....	v s
Fluorophosphonic acid	$H_2[PO_3F]$	99.99	col oily liq	1.818	−80	....	v s
Fluorophosphonic acid, di	$H_2[PO_2F_2]$	102.99	col fum liq	1.583	−96.5	115.9	s
Fluorophosphoric acid, hexa-	$H[PF_6]$	145.97	col fum liq	1.65	....	....	s
Fluorosilicic acid, hexa-	$H_2[SiF_6]$	144.08	col fum liq, 1.3465 61% soln	1.463	d	....	s
Fluorosulfonic acid	$H[SO_3F]$	100.07	col liq	1.743^{25}	−87.3	165.5	s
Gadolinium	Gd	157.25	met, hcp	7.895	1306	3000	s a
acetate-4-water	$Gd(C_2H_3O_2)_3 \cdot 4H_2O$	406.45	col, tric	1.611	....	....	21.6^{25}
boride, hexa-	GdB_6	222.11	blue, cub	4.65	....	....	....
bromide	$GdBr_3$	396.96	col, rhbd	4.57	770	1490	s
chloride	$GdCl_3$	263.61	wh, hex, hygr	4.52^{0}	602	1580	[illegible]
fluoride	GdF_3	214.25	wh, hex	7.047	1231	2277	[illegible]
hydride, di-	GdH_2	159.27	[illegible]	7.08	[illegible]	[illegible]	[illegible]
hydroxide	$Gd(OH)_3$	308.27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
iodide, di-	$[Gd^{3+}(e^-)(I^-)_2]$	411.06	bronze	[illegible]	[illegible]	[illegible]	[illegible]
iodide, tri-	GdI_3	537.96	yel, hex	....	925	1340	[illegible]
nitrate-6-water	$Gd(NO_3)_3 \cdot 6H_2O$	451.36	col, tric, deliq	2.322	91	[illegible]	[illegible]
oxalate-10-water	$Gd_2(C_2O_4)_3 \cdot 10H_2O$	758.71	col, mn	....	d 110	....	[illegible]
oxide	Gd_2O_3	362.50	wh, mn, hygr	7.64	2340	....	s a
selenate-8-water	$Gd_2(SeO_4)_3 \cdot 8H_2O$	887.60	pearly, mn	3.309	$-8H_2O$, 130	....	s
selenide	GdSe	236.2	cub	....	1860	....	....
sulfate	$Gd_2(SO_4)_3$	602.63	col	4.139^{15}	d 500	....	2.60^{20}
sulfate-8-water	$Gd_2(SO_4)_3 \cdot 8H_2O$	746.81	col, mn	3.010^{15}	anhyd 400	....	4.08
sulfide	GdS	189.3	cub	....	2027	....	....
(di-) sulfide, tri-	Gd_2S_3	419.69	yel-brn, cub, hygr	3.8	1885	....	s a